

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
9 October 2003 (09.10.2003)

PCT

(10) International Publication Number  
**WO 03/082966 A1**

(51) International Patent Classification<sup>7</sup>: C08K 3/34

(21) International Application Number: PCT/AU03/00385

(22) International Filing Date: 28 March 2003 (28.03.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
PS 1464 28 March 2002 (28.03.2002) AU

(71) Applicant (for all designated States except US): COM-  
PCO PTY LTD [AU/AU]; Factory 10, 19-23 Japaddy  
Road, Mordialloc, Victoria 3195 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): MCMAHON,  
William, James [AU/AU]; 1/6-8 Bertram Street, El-  
sternwick, Victoria 3185 (AU). MAYER, Hans, Anton  
[DE/AU]; 8 Hilton Street, Beaumaris, Victoria 3193 (AU).

(74) Agent: GRIFFITH HACK; 509 St Kilda Road, Mel-  
bourne, Victoria 3004 (AU).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD,  
SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US,  
UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,  
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,  
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.



WO 03/082966 A1

(54) Title: CROSS-LINKABLE AND/OR CROSS-LINKED NANOFILLER COMPOSITIONS

(57) Abstract: The present invention relates to a cross-linkable and/or cross-linked nanofiller composition which comprises a cross-linkable and/or cross-linked ethylene (co)polymer and an intercalated nanofiller. The present invention also relates to processes for preparing the nanofiller composition, articles composed of the nanofiller composition and processes for preparing the articles.

BEST AVAILABLE COPY